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File: USPT

DOCUMENT-IDENTIFIER: US 6244727 B1

TITLE: Optic lens cell and illuminated signage having a cell array

Detailed Description Text (4):

At least one lens 18 is provided in each cell 10, the lens 18 preferably molded from a polycarbonate or acrylic material. Optionally, the lens 18 may be made of a thermoplastic resin or other material and fabricated by other methods known to those skilled in the art. The lens 18 may be generally transparent or have a tint or other light filter for producing a visible color as may be desired in a given application. The lens 18 and board 16 are preferably oriented in a generally parallel and spaced apart arrangement. The lens 18 is preferably rigidly attached to the board by a mounting member 19 such as a pin, rod, bracket, block, unitary arm extending from the lens 18, or other mounting mechanism known to those skilled in the art and selected to generally prevent movement of the lens 18 relative to the board 16 and to not interfere with light from the LEDs 12. The board 16 and lens 18 are preferably generally rectangular so that the resulting cell 10 has a generally rectangular shape. Optionally, the cell 10 may have a triangular, hexagonal, octagonal, other regular or irregular shape known to those skilled in the art.

Detailed Description Text (26):

For construction and installation of the present invention, the cells 10 are combined into the array 52, electrically connected to the electric control 56, and enclosed within the housing 54 to form an illuminating sign or signal 50. As described hereinabove, all the components are either commercially available or are capable of being easily manufactured from readily available materials. The number, size, shape, and lens tint of the cells 10 may be selected for any desired application. The cells 10 for a particular array 52 are preferably generally uniform in shape and size and may be easily combined into an array 52 to form an illuminated sign 50 for any of a wide variety of lighting applications such as those described herein.

Current US Cross Reference Classification (1):362/237Issued US Cross Reference Classification (1):362/237